ATTACHMENT 6: BUDGET

The budget must be consistent with and support the work plan and schedule. The budget attachment should consist of a budget table (Table 3) and explanatory text. In the table, for each work plan task, a budget line item estimate should be presented, as well as a breakdown of the applicant's funding match and requested grant funds. Explanatory text should allow the reviewer to understand how the budget estimate was developed (basis of estimate). This may include supporting information for the budget such as labor categories, hourly rates, labor time estimates, and subcontractor quotes. Subcontractor quotes should also include information supporting the quotes, such as hourly rates and the number of hours required to perform each included task. Submittal of lump sum task estimates may be appropriate; however, applicants must substantiate the reasonableness and logic for using a lump sum basis of estimate. The sources for other funding to complete the proposal must be identified, though a funding match is not required. Applicants are encouraged to limit direct project administrative expenses to less than 5% of the total proposal costs.

Table 1 shows the overall budget for the project, with each partnering organization's budget shown for each task. UC Davis leads efforts on Tasks 1 and 2. KRCD will lead groundwater well work shown in Task3. Tetra Tech is leading Task 4, the vadose zone model, and Task 5. As the submitting organization, KRCD is leading contract administration, which includes Labor Compliance.

Table 1. Budget Summary

Task No.	Task Description	KRCD	UC Davis	Tetra Tech	Total
1	Root Zone Characterization		$56,310	$11,815	$68,124
2	Upper Vadose Zone Characterization		$14,077	$1,000	$15,077
3	Groundwater Well installation and Sampling	$118,255			$118,255
4	Deep Unsaturated Zone Modeling			$46,014	$46,014
5	Outreach			$1,000	$1,000
6	Administration	$1,530			$1,530
	Total	$119,785	$70,387	$59,828	$250,000

Having experience with similar projects, KRCD maintains a working relationship with multiple well drillers located within the region. The cost to construct three monitoring wells was calculated to be $105,000 based upon a conservative average of three verbal quotes received from local contractors ($30,000-$40,000 per well at 350' depth). If needed, well depth can be slightly adjusted, without compromising project benefits, in order to remain within budget. Provided as an attachment is a bid received from Global Water, the vendor supplying remote well monitoring equipment for the KRCD Remote Telemetry Project. The attached bid was used to calculate three additional installations at a cost of approximately $13,255. Also attached is a bid from LCP, Inc. which was used to calculate the cost of implementing a Labor Compliance Plan at $1,530. All other administration activities related to this project will be provided in-kind and will not be reported in invoice submittals.

UC Davis' budget is shown in Table 2. UC Davis will employ a graduate student researcher (GSR) part-time during one academic year and full-time during the summer. Funds are provided for laboratory and field supplies for conducting sampling (e.g., water sampling, soil coring), setting up plot studies and running laboratory analyses. Twelve round-trips from Davis to Helm, CA are planned and budgeted for work that is planned to occur over a total 12 month period. An overhead rate of 25% of total project costs is applied which is the overhead cost charged by UC Davis for state projects.

The budget is split between the tasks based upon an estimated workload. Tasks 1 is estimated as needing 80% of the GSR effort and Task 2 is estimated as needing 20% of the GSR effort.

Tetra Tech's budget is provided in Table 3. Time for staff supports implementing the vadose zone model (Task 4), working with UC Davis to integrate root zone characterization efforts with the vadose zone model (Task 1), provide staff support to UC Davis for soil coring efforts in Task 2, and providing outreach through integrating findings from this project with the larger Flood Corridor Project (Task 5). We estimate approximately 25% of Tetra Tech labor costs will be towards field studies support and integration, and 75% of Tetra Tech labor costs towards modeling efforts and related resporting. Federally audited indirect charges include General and Administrative (G&A) at 13.43%; Overhead (O&H) at 58.21%; Employee Fringe Benefits (EFB) at 43.95% and Profit at 10%.

Table 2. UC Davis Budget

Category		$s	
Expenses			
Travel	12 round trips @ $250/trip	$2,500	
supplies	laboratory, miscellaneous	$7,000	
copying, pubs		$500	
tuition		15271	
Total Expenses		**25271**	
Fringe Benefit Rates			
GSR Academic		*1.30%*	
GSR Summer		*1.30%*	
		Salary	Benefits
GSR Academic	Academic Year 1/2 time	$17,832	$232
GSR Summer	Summer full time	$9,687	$126
Totals		**$27,519**	**$25,271**
Total Salary with benefits		**$52,790**	
MDTC		**$52,790**	
OH Rate		**33.3%**	
Indirect Cost [1]		**$17,597**	
Total Costs		**$70,387**	

Table 3. Tetra Tech Budget

Direct Labor		Hourly Rate	Hours	Amount	Justification
PI: Phil Bachand		$60.88	54.00	$3,287.52	Coordination with Horwath and integration with DWR Flood project
Senior Engineer: Sandra Bachand		$42.50	92.00	$3,910.00	Reporting; Data analyses
Field Staff: Nicole Stern		$22.50	41.00	$922.50	Field support as needed for Horwath
Co-PI:Karen Summers		$68.03	40.00	$2,721.20	Model Set-up & interpretation
GW Modeler: Michael Ungs		$49.08	144.00	$7,067.52	Vadose Zone Modeling
Modeling Support: Limin Chen		$38.60	40.00	$1,544.00	Data Analysis and Modeling Support
Contract Specialist: R. Carlisle		$38.45	16.00	$615.20	
Word Processing/Graphics: T. Gannon		$20.48	24.00	$491.52	
Direct Labor Subtotal			**451.00**	**$20,559.46**	
	EFB	43.95%		$9,035.88	
	OH	58.21%		$17,227.45	
	G&A	13.43%		$6,288.30	
	Fee	10.00%		$5,311.11	
Total Labor				**$58,422.20**	
Tetra Tech: Other Direct Charges					
Computer Services		451.00	$1.64	$739.64	
Reproduction				$0.00	
Telephone				$0.00	
Travel (2 trips @ $250 each)				$500.00	
SUBTOTAL ODC's				$1,239.64	
G&A on ODC'S @	13.43%			$166.48	
			Subtotal Costs	$1,406.12	
Total Cost Estimate				**$59,828.33**	